



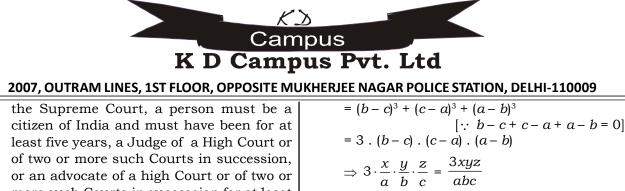
- 60. (B) Marginal product of an input (factor of production) is the extra output that can be produced by using one more unit of the input (for instance, the difference in output when a firm's labour usage is increased from five to six units), assuming that the quantities of no other inputs to production change. Marginal product, which occasionally goes by the alias marginal physical product (MPP) is the one of the two measures derived from the total product. The other is average product. Marginal product is directly proportional to total product.
- 64. (D) Work done by the string of the simple pendulum during one complete oscillation is zero. Tension in the string exactly cancels the component parallel to the string. This leaves a net restoring force back toward the equilibrium position as it is equal to zero.
- 66. (C) Capital markets provide for the buying and selling of long term debt or equity backed securities. When they work well, the capital markets channel the wealth of savers to those who can put it to long term productive use, such as companies or governments making long term investments. Capital Markets allow businesses to raise long-term funds by providing a market for securities, both through debt and equity. Capital markets offer a whole range of complicated products which allow businesses and banks not just to raise capital but also to 'hedge' (protect) against risks.
- 68. (B) A strait is a narrow, typically navigable channel of water that connects two larger, navigable bodies of water. It commonly refers to a channel of water that lies between two land masses, but it may also refer to a navigable channel through a body of water that is otherwise not navigable, for example because it is too shallow, or because it contains an un-navigable reef or archipelago.
- 70. (A) According to the Special Theory of Relativity, the mass of a moving object measures more as its velocity increases until, at the speed of light, it becomes infinite. This is because as an object gains speed, it gains more (kinetic) energy.
- 72. (C) The Public Accounts Committee (PAC) is a committee of selected members of Parliament, constituted by the Parliament of India for the auditing of the expenditure of the government of India. Its chief

function is to examine the audit report of Comptroller and Auditor General (CAG) after which it is laid in the Parliament CAG to assist the committee during the course in investigation. None of the 22 members shall be a minister in the government.

- 73. (B) The Indian Tri-colour was first unfurled on 26 January, 1930 at Lahore, by Pandit Jawaharlal Nehru. It was on the same day that the Indian National Congress declared 26th January as Independence Day or as the day for Poorna Swaraj (Complete Independence) which occurred 20 years later.
- 76. (B) United States is the third largest country in terms of population after China and India.
- 78. (A) The sewage obtained from water closets and urinals in known Sanitary waste.
- 80. (A) Higher concentration of Nitrogen and Phosphorus causes Eutrophication.
- 82. (A) The Indian Councils Act 1909, commonly known as parliament of the United Kingdom that brought about a limited increase in the involvement of Indians in the governance of British India.
- 84. (B) If the President is satisfied on the basis of the report of the Governor of the concerned state or from other sources that the governance in a state cannot be carried out according to the provisions in the Constitution, he/she can declare a state of emergency in the state. Such a emergency must be approved by the Parliament within a period of 2 months. Under Article 356 of the Indian Constitution, it can be imposed from six months to a maximum period of three years with repeated parliamentary approval after every six months.
- 87. (C) Composite volcanoes are most commonly found in island arcs. Most of them are found scattered on the islands adjoining the Pacific Ring of Fire where about 75% of Earth's volcanoes are found. It is a region of high volcanic and seismic activity that surrounds the majority of the Pacific Ocean Basin.
- 89. (B) The Constitution of India mentions certain conditions for a person to be eligible for being a judge of the Supreme court of India. In order to be appointed as a Judge of

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or an advocate of a high Court or of two or more such Courts in succession for at least 10 years or he must be a distinguished jurist in the opinion of the President.

- 92. (C) The main source of carbon monoxide is transportation.
- 94. (B) India is called a mixed economy because there is both private owned enterprises and state owned enterprises and the government does not intervene on the decisions of enterprises owned by individuals except to govern law and to correct market failures. The product market in this case is determined by the market demand and market supply rather than the decisions of the policy makers.
- 95. (B) Mushroom cultivation has been found to coincide with decrease of incidents of breast cancer. Spent residues after cultivation could be a better source of biologically pre-treated substrates for biogas production and agricultural waste recycling can be can be achieved through controlled cultivation of mushrooms.
- 96. (A) Ozone layer serves as a protective shield against harmful solar ultraviolet radiation.
- 98. (D) Water vapour transpires constantly through pores (stomata) in the surface of plant's leaves.
- 101. (A) Let the numbers are a and b. $\therefore b^{3} - a^{2} = b^{2} \Rightarrow b^{3} = a^{2} + b^{2}$ $a.b = 300 \text{ and } (a + b)^{2} = 1600$ $\Rightarrow a^{2} + b^{2} + 2ab = 1600$ $\Rightarrow b^{3} + 2 \times 300 = 1600$ $\Rightarrow b^{3} = 1600 - 600 = 1000 \Rightarrow b = 10$ $\Rightarrow ab = 300 \Rightarrow a \times 10 = 300 \Rightarrow a = 30$ $\Rightarrow \text{ numbers } a, b = 30, 10$

102. (C)
$$x = a (b - c) \Rightarrow \frac{x}{a} = (b - c)$$

 $y = b (c - a) \Rightarrow \frac{y}{b} = (c - a)$
 $z = c (a - b) \Rightarrow \frac{z}{c} = (a - b)$
 $\therefore \left(\frac{x}{a}\right)^3 + \left(\frac{y}{b}\right)^3 + \left(\frac{z}{c}\right)^3$

103. (A) Let the side of regular polygon = x \Rightarrow each interior angle = $\frac{(2n-4) \times 90^{\circ}}{n}$ ATO

$$\frac{(2n-4) \times 90^{\circ}}{n} = 2 \times 90^{\circ} \times \frac{4}{5}$$
$$\Rightarrow n = 10$$

104. (C) A + B + C can fill a cistern in 6 hrs ...(i)

$$\therefore$$
 A + B + C can fill $\frac{1}{3}$ of cistern in 2 hrs.

Now,
$$1 - \frac{1}{3} = \frac{2}{3}$$
 of cistern is filled up by A + B in 7 hrs.

 \therefore A + B can fill up the whole cistern in

$$\frac{7 \times 3}{2} = \frac{21}{2}$$
 hrs ...(ii)

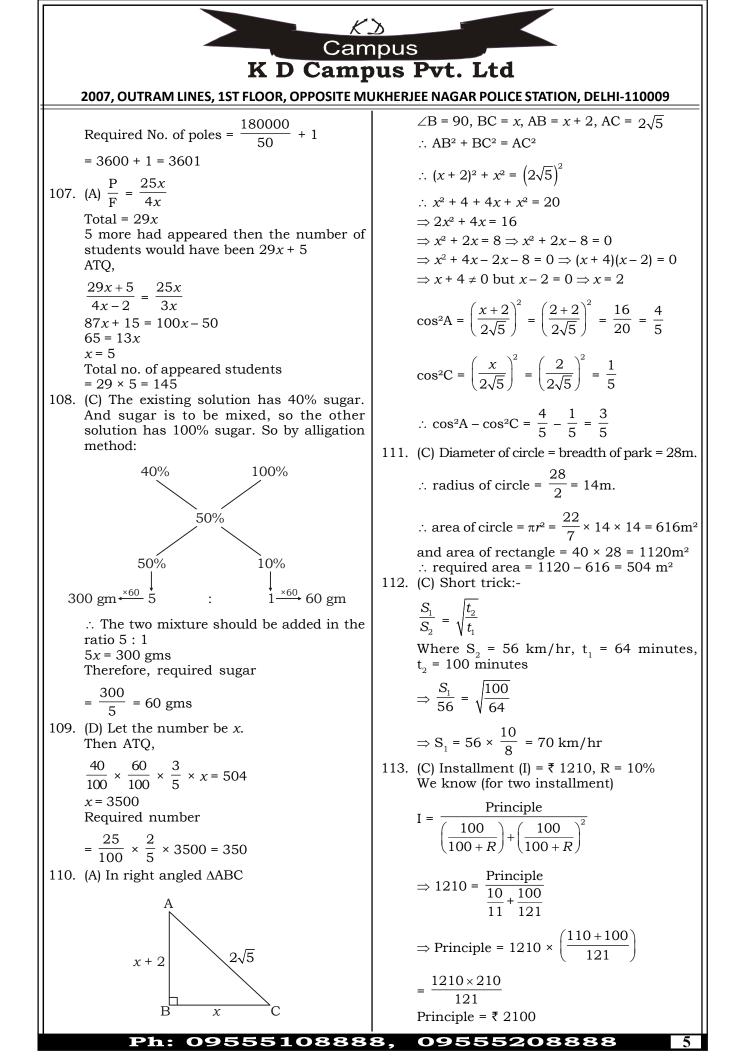
From (i) and (ii), C can fill the cistern in

$$= \frac{6 \times \frac{21}{2}}{\frac{21}{2} - 6} = \frac{6 \times 21}{9} = 14$$
 hrs.

105. (C) Distance travelled by Ravi = (60 – 12) km = 48 km and distance travelled by Ajay = (60 + 12) km = 72 km Difference between the distance travelled by them = (72 – 48) km = 24 km Time required by Ravi = $\frac{24}{4}$ hr = 6 hr Speed of Ravi = $\frac{48}{6}$ km/hr = 8 km/hr106. (C) Speed = 45 km/hrTime = 4 hr $Distance = Speed \times time$ $= 45 \times 4 = 180 \text{ km}$ $= 180 \times 1000 = 1,80,000 \text{ m}$ P₂ P_2 50 m 50 m 100 m Here P = Polei.e. in 100 m we have 3 poles so,

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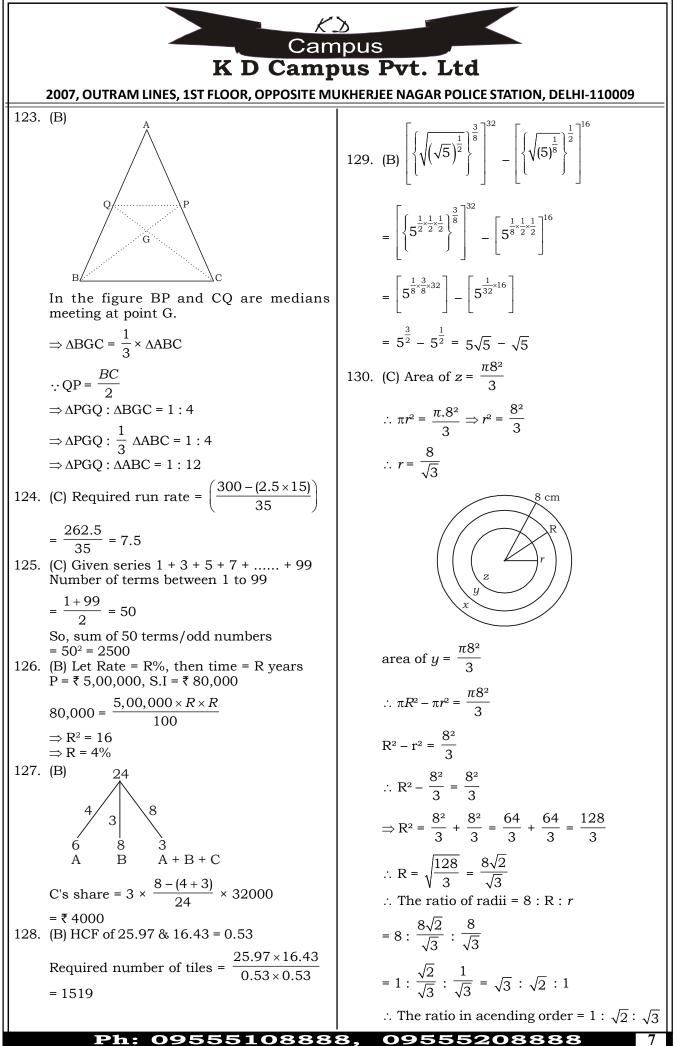
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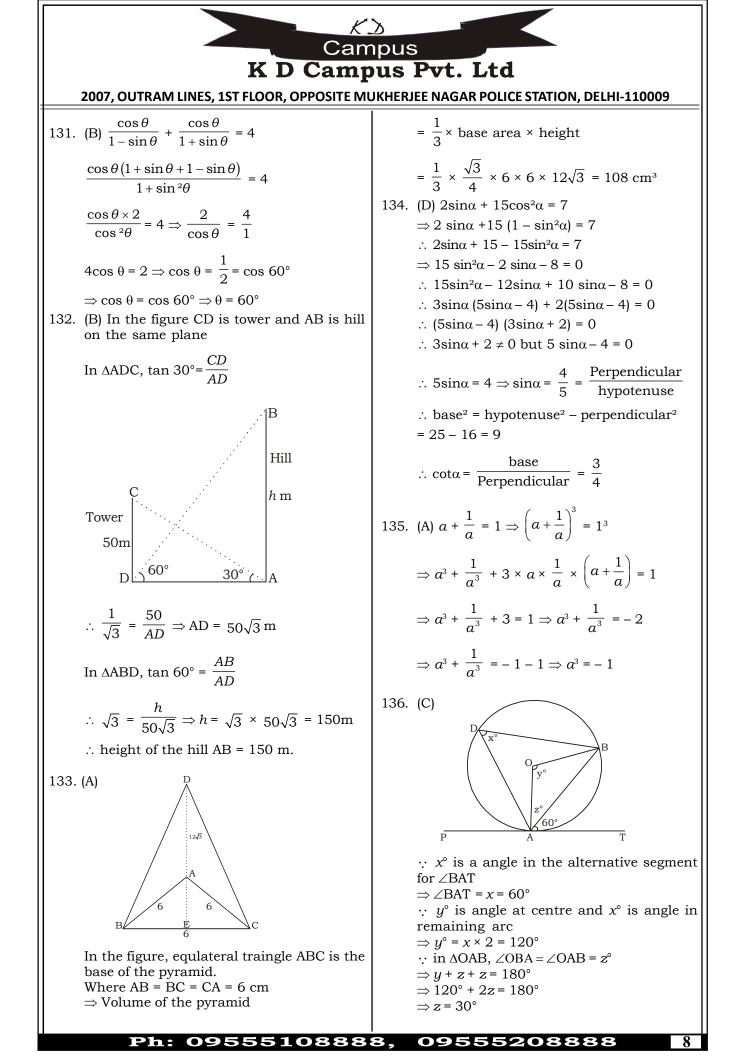


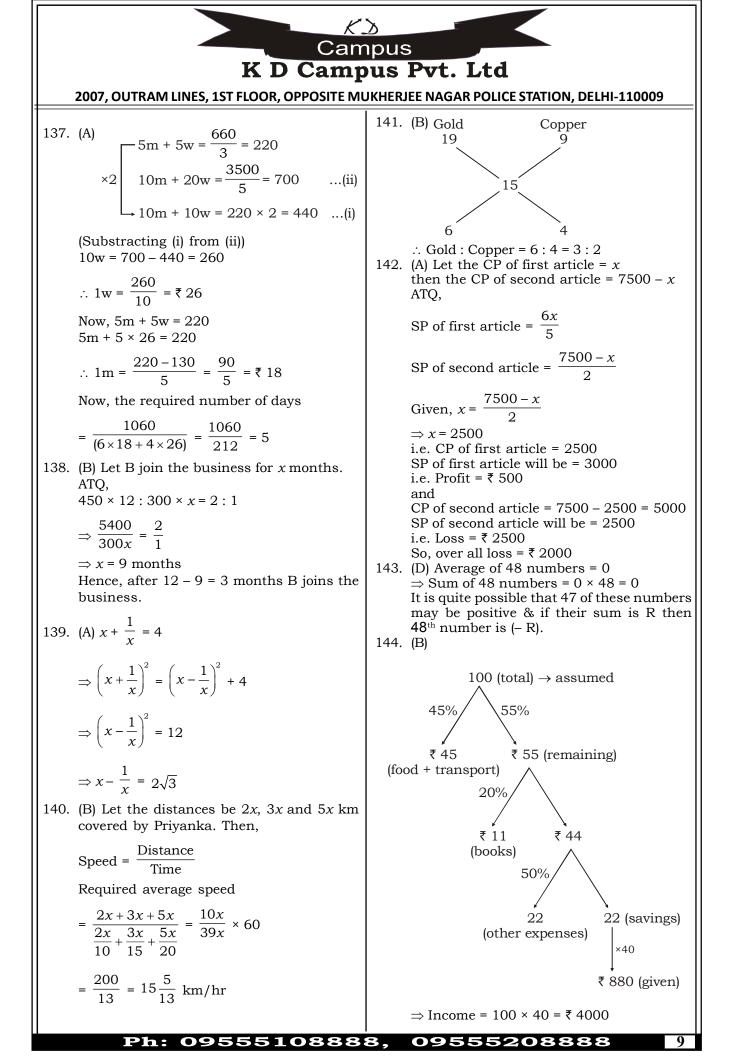
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114. (A) Freah fruit has 68% water, so 32% is
fruit content. Dry fruit has 20% water, so 32% is
fruit content. Dry fruit has 20% water, so 32% is
$$200 \times 100 = \frac{80}{100} \times y$$

 $\Rightarrow y = 40 \text{ gm}$
115. (D) He gives after discount $= \frac{80 \times 120}{100} = 96 \text{ cms}$
 $10 = 96 - 80 = 16 \text{ cms}$
 $\therefore Px_{0} = \frac{16 \times 100}{80} = 20\%$
116. (B) $t = \frac{1}{2} \text{ yr., } r = 4\% \text{ pass}$
 $\therefore Px_{0} = \frac{16 \times 100}{80} = 20\%$
117. (C) Let distance $z \text{ km}$ and speed $= y \text{ km/r}$.
Then ATQ.
 $\frac{x}{y} = \frac{x}{y = 3} = \frac{40}{60}$...(i)
 $\frac{x}{y} = \frac{x}{y = 3} = \frac{40}{60}$...(i)
 $\frac{x}{y} = \frac{x}{y = 3} = \frac{40}{60}$...(i)
 $\frac{x}{y} = \frac{x}{y = 40} = \frac{40}{12} \text{ km/hr}$
Then ATQ.
 $\frac{x}{y} = \frac{x}{y} = \frac{40}{60}$...(i)
 $\frac{x}{x} = \frac{x}{1} = \frac{2}{x} (x + \frac{1}{x})^{2} = 2^{2}$
 $\therefore x^{2} + \frac{1}{x^{2}} + 2 = 4 \Rightarrow x^{2} + \frac{1}{x^{2}} = 2$
 $\Rightarrow (x^{2} + \frac{1}{x^{2}})^{3} = 2^{3}$
 $\therefore x^{2} + \frac{1}{x^{2}} + 2 = 4 \Rightarrow x^{2} + \frac{1}{x^{2}} = 2$
 $\Rightarrow (x^{2} + \frac{1}{x^{2}})^{3} = 2^{3}$
 $\Rightarrow x^{4} + \frac{1}{x^{2}} + 3 \times 1 \times 2 = 8$
 $\Rightarrow x^{4} + \frac{1}{x^{2}} + 3 \times 1 \times 2 = 8$
 $\Rightarrow x^{4} + \frac{1}{x^{2}} - 8 - 6 - 2$

D







EXAMPLES 15 FLOCE OPPOSITE NUMERATION PLANTING
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145. (A) Descreased angles be
$$2x', 3x', 5x''$$

.: Real angles would be $(2x + 15)^*$, $(3x + 15)^*$,
 $(5x + 15)^*$
.: $2x + 15 + 3x + 15 + 5x + 15 - 180$
.: $10x + 45 = 180 \Rightarrow 10x = 135 \Rightarrow x = \frac{135}{10}$
.: Gretest angle = $(5x + 15)^*$
 $= \left(5 \times \frac{135}{10} + 15\right)^6 = \left(\frac{135}{2} + 15\right)^6 = \left(\frac{165}{2}\right)^6$
.: The radian measure $= \left(\frac{165}{2}\right)^8 \times \frac{\pi}{180^*}$
 $= \frac{11}{24}\pi$
146. (C) Total number of people in all six cities
 $= \frac{10,000 \times 100}{20} = 50,000$
Total population of city A
 $= 50,000 \times \frac{20}{100} = 10,000$
Number of females in city A = 50% = 5000
147. (B) Total $_0 = 50,000 \times \frac{10}{100} = 5000$
Males are 30% , so females
 $= 100,000 \times \frac{20}{100} = 10,000$
Males are 30% , so females
 $= 100 - 30 = 70\%$
Difference = $70 - 30 = 40\%$
Hals. (B) Female, $= 50,000 \times \frac{10}{100} \times \left(\frac{100 - 50}{100}\right)$
 $= 50000 \times \frac{2}{5} = 2000$
Female, $= 50,000 \times \frac{20}{100} \left(\frac{100 - 50}{100}\right)$
 $= 10,000 \times \frac{1}{2} = 5000$
Required $\% = \frac{50000}{2000} \times 100 = 250\%$
Required $\% = \frac{5000}{2000} \times 100 = 250\%$

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MEANINGS IN ALPHABETICAL ORDER

Word Absolve	Meaning in English To state formally that somebody is not guilty or responsible for something	Meaning in Hindi दोष मुक्त करना
Acoustics Agnostic	Of or relating to sound A person who believes that it is not possible to know whether God exists or not	ध्वनि संबंधित अनीश्वरवादी
Agronomy Allegory	The science of soil management and crop production A story in which the characters and events are symbols that stand for ideas about human life or for a political or historical situation	कृषि विज्ञान रूपक कथा, दृष्टांत
Applaud	To express praise for somebody/something because you approve of them or it	सराहना करना
Belligerent Collusion	Unfriendly and Aggressive Secret agreement especially in order to do something dishonest or to trick people	लड़ाकू साँठ-गाँठ, मिली भगत
Comely Corroborate	Pleasing in appearance : pretty or attractive To provide evidence or information that supports a statement, theory, etc	सुहावना, मनोरम पुष्टि करना
Crestfallen	Sad and disappointed because you have failed and you did not expect to	हतोत्साहित, निराश
Despair	The feeling of having lost all hope	निराशा
Despondency	A feeling of being sad and without much hope	निराशा, अवसाद
Elation	A feeling of great happiness and excitement	प्रफुल्लता, उत्साह
Fancies	To want something or want to do something	चाह, इच्छा
Fastidious	Very attentive to and concerned about accuracy and detail	तुनक मिजाज, नकचढ़ा
Hedonist	A person who believes that the pursuit of pleasure is the most important thing in life	सुखवादी
Iconolast	A person who criticizes popular beliefs or established customs and ideas	परम्परा तोड़ने वाला
Indignant	Angered at something unjust or wrong	क्रोधित
Notion	An idea, a belief or an understanding of something	धारणा
Obstruct	To slow or block the movement, progress, or action of (something or someone)	बाधा डालना, रोकना
Paronym	A word that is a derivative of another and has a related meaning	व्युत्पन्न शब्द
Peculiarity	A strange or unusual feature or habit	विलक्षणता, विशेषलक्षण
Philanderer	A person who readily or frequently enters into casual sexual relationships	व्यभिचारी
Pragmatic	Solving problems in a practical and sensible way rather than by having fixed ideas or theories	व्यावहारिक
Reinforce	Make stronger	सुदृढ् बनाना
Second	To give support or one's approval to	समर्थन करना
Sojourn	A temporary stay	थोड़े समय के लिए कहीं पर ठहरना
Stoic	One who is indefferent to pleasure and pain	तटस्थ:
Triumphant	One who is indefferent to pleasure and pain Showing great satisfaction or joy about a victory or success	तटस्यः सफलता का हर्ष मनाने वाला प्रफुल्लित
Urges	To recommend something strongly	जोर देकर समर्थन करना

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	SSC	C MOC	k tesi	<u>- 35 (</u>	NSWER	KEY)	
1. (C) 2. (C) 3. (A) 4. (A) 5. (B) 6. (A) 7. (C) 8. (D) 9. (B) 10. (A) 11. (A) 12. (B) 13. (A) 14. (D) 15. (C) 16. (C) 17. (C) 18. (D) 19. (D) 20. (B) 21. (B) 22. (C) 23. (A) 24. (A)	$\begin{array}{c} 26. \ (C) \\ 27. \ (D) \\ 28. \ (D) \\ 29. \ (A) \\ 30. \ (A) \\ 31. \ (D) \\ 32. \ (D) \\ 33. \ (C) \\ 34. \ (C) \\ 35. \ (B) \\ 36. \ (A) \\ 37. \ (B) \\ 36. \ (A) \\ 37. \ (B) \\ 38. \ (D) \\ 39. \ (D) \\ 40. \ (A) \\ 41. \ (A) \\ 42. \ (D) \\ 43. \ (A) \\ 44. \ (D) \\ 45. \ (B) \\ 46. \ (C) \\ 47. \ (C) \\ 48. \ (C) \\ 49. \ (C) \end{array}$	51. (A) 52. (B) 53. (D) 54. (A) 55. (A) 55. (A) 56. (D) 57. (B) 58. (C) 59. (D) 60. (B) 61. (C) 62. (A) 63. (C) 64. (D) 65. (A) 66. (C) 67. (B) 68. (B) 69. (C) 70. (A) 71. (C) 73. (B) 74. (C)	 76. (B) 77. (B) 78. (A) 79. (B) 80. (A) 81. (C) 82. (A) 83. (C) 84. (B) 85. (D) 86. (C) 87. (C) 88. (A) 89. (B) 90. (A) 91. (C) 92. (C) 93. (B) 94. (B) 95. (B) 96. (A) 97. (B) 98. (D) 99. (B) 	101. (A) 102. (C) 103. (A) 104. (C) 105. (C) 106. (C) 107. (A) 108. (C) 109. (D) 110. (A) 111. (C) 112. (C) 113. (C) 114. (A) 115. (D) 116. (B) 117. (C) 118. (C) 119. (A) 120. (D) 121. (B) 122. (D) 123. (B) 124. (C)	126. (B) 127. (B) 128. (B) 129. (B) 130. (C) 131. (B) 132. (B) 133. (A) 134. (D) 135. (A) 136. (C) 137. (A) 138. (B) 139. (A) 140. (B) 141. (B) 142. (A) 143. (D) 144. (B) 145. (A) 146. (C) 147. (B) 148. (B) 149. (A)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	176. (B 177. (A 178. (A 179. (B 180. (B 181. (A 182. (B 183. (B 184. (C 185. (*) 186. (A 187. (A 188. (C 189. (A 190. (B 191. (D 192. (C 193. (C 194. (A 195. (A 196. (D 197. (A 198. (A 199. (B
1. (A) S corrections (A) S order (A) B (A) B (A) R (A) R $= \frac{-6}{-6}$ (C) R (52. (*) 'T	ect option as olution given r is 643125. 59. (B) 67. oth (A) and (D equired ratio $\frac{0+20}{56} = \frac{14}{56} =$ Replace 'his' b	en is correc (A). (A) 75. (B) (A) 75. (B) 75. (B) (A) 75. (B) 7	ct. Read the . The correc 87. (C) t. $+\frac{40}{100} \times 50$ 56 and well'. Read	t	150. (D)	175. (A)	200. (C

Note:- If you face any problem regarding result or marks scored, please contact 9313111777

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003

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